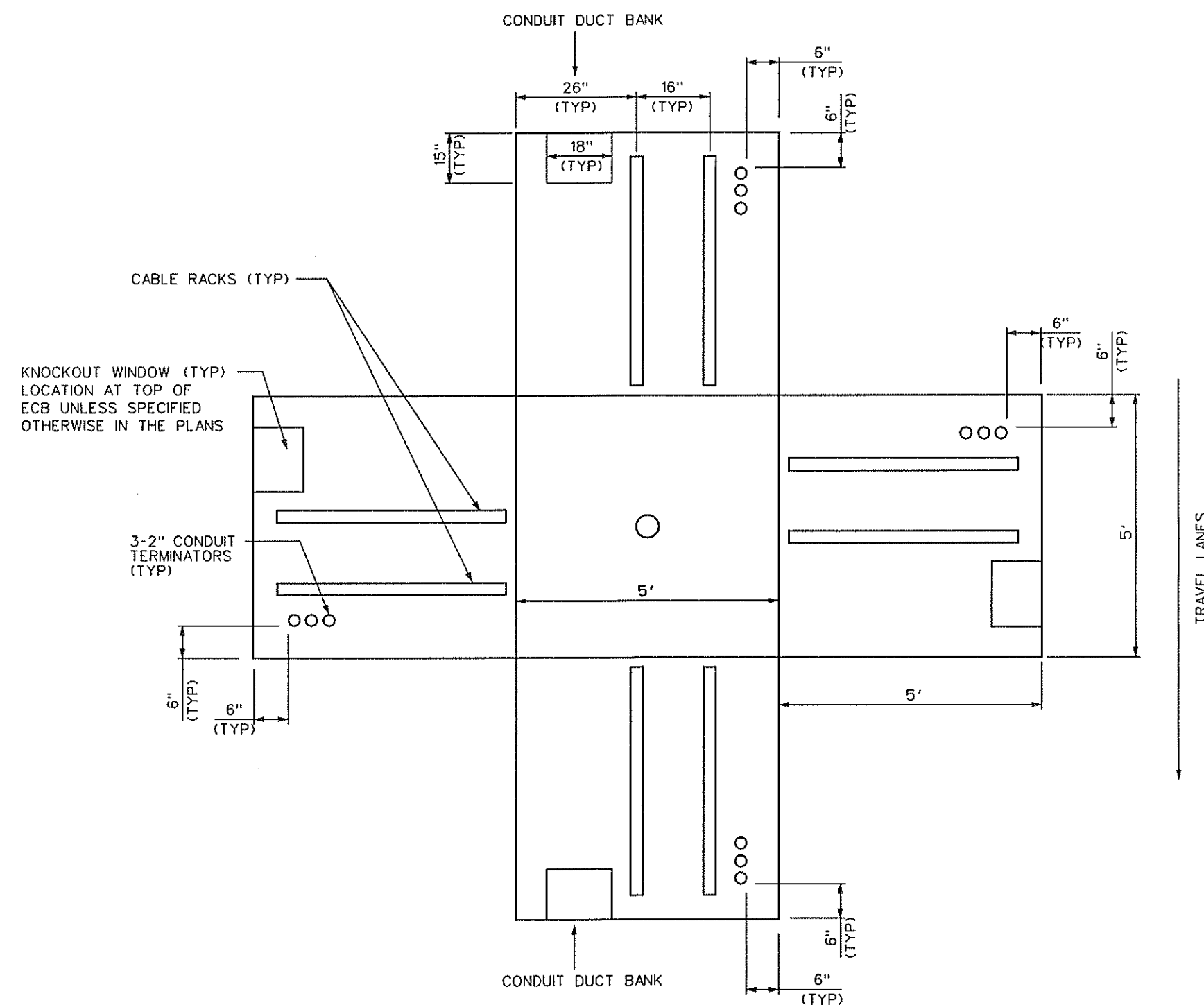
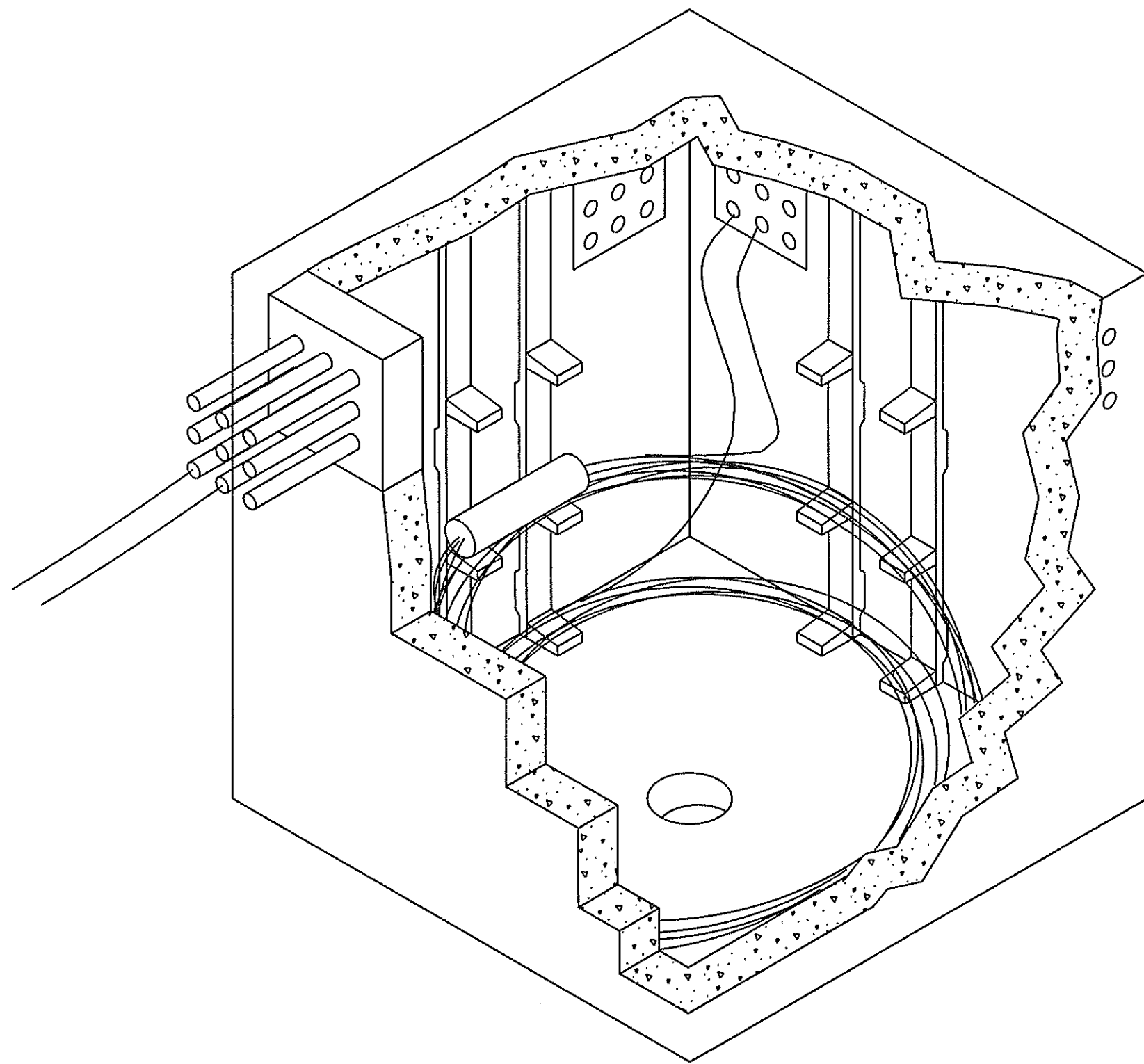


2025 3/25/25 12:01 PM

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CM-285-1(361)	62	234



TYPE 5 ECB FEATURES - INSIDE WALLS
NOT TO SCALE



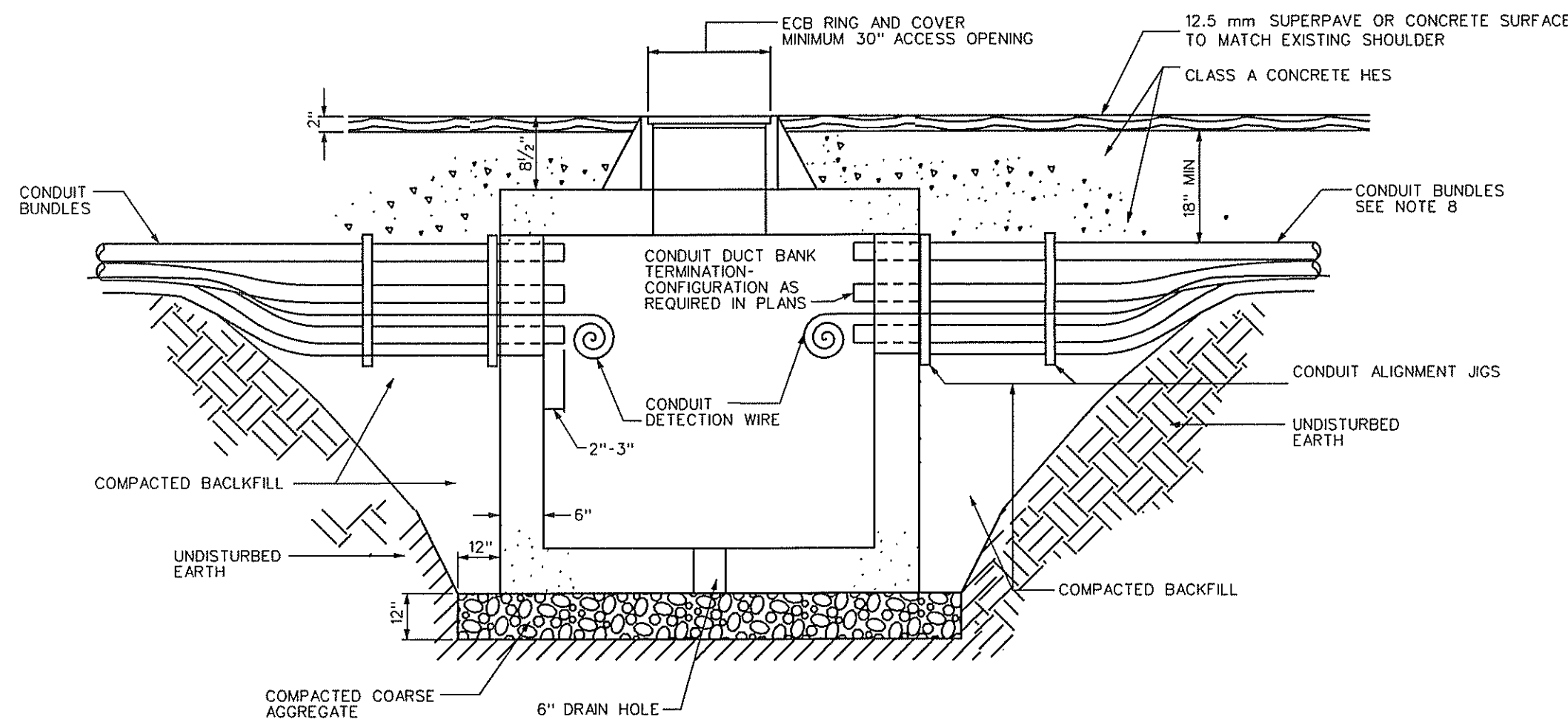
TYPICAL TYPE 5 ECB LAYOUT
NOT TO SCALE

REHABILITATION OF ECB'S

THE FOLLOWING REQUIREMENTS DEFINE THE WORK ASSOCIATED WITH PAY ITEM, ECB REHABILITATION (ALL TYPES).

ECB REHABILITATION (ALL TYPES) SHALL BE MEASURED BY UNIT, WORK COMPLETE, AND SHALL BE PAID FOR AT THE UNIT PRICE PER EACH ECB REHABILITATED AS DEFINED IN THE FOLLOWING REQUIREMENTS.

- 1) THE CONTRACTOR SHALL ESTABLISH THE LOCATION OF THE ECB, RECOGNIZING THAT THE MANHOLE MAY BE PAVED OVER.
- 2) THE MANHOLE LID SHALL BE OPENED, WHICH MAY INCLUDE USE OF POWER TOOLS TO ACCOMPLISH.
- 3) EXISTING CABLE COILS SHALL BE REMOVED FROM THE ECB TEMPORARILY ENSURING NO KINKS OR ABRASIONS.
- 4) THE INTERIOR OF THE ECB SHALL BE CLEANED BY REMOVING ANY DEBRIS, TRASH, MUD, SILT, AND WATER.
- 5) ALL JOINTS AND SEAMS IN THE ECB SHALL BE RESEALED WITH A SILICONE SEALANT, TYPE A, AS SPECIFIED IN SECTION 833.2.06.
- 6) APPROPRIATE CABLE RACKING, AS DEFINED BELOW, SHALL BE INSTALLED:
 - RACK QUANTITY: 2 RACKS PER INSIDE WALL, FOR INSIDE WALL WIDTHS OF GREATER THAN OR EQUAL TO 36"; 1 RACK PER INSIDE WALL, FOR INSIDE WALL WIDTHS LESS THAN 36" OR GREATER THAN 24"; NO RACKS REQUIRED FOR INSIDE WALL WIDTHS LESS THAN OR EQUAL TO 24".
 - SPACING BETWEEN SUCCESSIVE RACKS AND ECB CORNERS SHALL BE EQUAL.
 - RACK HEIGHT: INSIDE HEIGHT OF ECB, MINUS 6".
 - BOTTOM EDGE OF RACK TO BE INSTALLED NO GREATER THAN 3" FROM FLOOR OF ECB.
 - RACKS TO BE INSTALLED DIRECTLY TO ECB WALL OR WITH SHORTEST STANDOFF BRACKET POSSIBLE; RACKS ARE TO BE INSTALLED USING THREADED ANCHORS INTO THE ECB WALLS.
 - CABLE SUPPORT ARMS SHALL BE 7" TO 9" IN LENGTH AND SHALL HAVE PLASTIC OR CERAMIC INSULATORS.
 - ALL CABLE RACKS, SUPPORT ARMS, AND HARDWARE SHALL BE MANUFACTURED FROM HOT-DIPPED GALVANIZED STEEL.
- 7) THE ECB RING AND LID ASSEMBLY SHALL BE RE-SET AT ACTUAL ROADWAY SURFACE ELEVATION.
- 8) ANY UNLABELED CABLING SHALL BE LABELED IN ACCORDANCE WITH LABELING REQUIREMENTS AS SET FORTH IN SECTION 935.



TYPE 5 ECB - TYPICAL INSTALLATION
NOT TO SCALE

GENERAL NOTES FOR ELECTRICAL COMMUNICATION BOX (ECB)

1. PRIOR TO ANY ECB WORK AND WITHIN 60 DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL SUBMIT CATALOG SHEETS AND ENGINEERING DRAWINGS FOR REVIEW BY THE ENGINEER. THE SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE ECB, RING AND COVER, CONDUIT TERMINATORS, CABLE RACKS AND HARDWARE, AND CONDUIT ALIGNMENT JIGS. NO WORK SHALL BE DONE USING THESE PRODUCTS UNTIL AFTER SUBMITTALS HAVE BEEN APPROVED BY THE ENGINEER.
2. ECB, TYPE 5, SHALL BE MEASURED BY UNIT, COMPLETE IN PLACE, AND SHALL BE PAID FOR AT THE UNIT PRICE PER EACH.
3. ECBs AND COVERS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C-857-87 DESIGNATION A-16H(20-44). THE ECB WALLS, FLOORS AND ROOF SHALL BE MINIMUM 6" THICKNESSES AND SHALL BE FORMED FROM 4500 PSICONCRETE IN ACCORDANCE WITH ASTM C150 TYPE ECBs, TYPE S, SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN HERE AND THE PLANS. ALL JOINTS AND SEAMS IN THE BOXES CREATED FROM MANUFACTURE OR FINAL ASSEMBLY SHALL BE SEALED WITH MANUFACTURER-APPROVED SEALANT.
4. ECBs, TYPE 5, EACH WALL SHALL INCLUDE 1 KNOCKOUT WINDOW AND 3 CONDUIT TERMINATORS FOR NONMETAL, TYPE 3-2" CONDUIT, AS SHOWN IN THE DETAILS. KNOCKOUT WINDOWS SHALL REMAIN SEALED UNLESS USED FOR CONDUIT DUCT BANK TERMINATION. CONDUIT INSTALLED INTO TERMINATORS SHALL BE SEALED WITH MANUFACTURER-APPROVED SEALANT. CONDUIT TERMINATORS SHALL PROVIDE 1" TO 1-1/2" SEPARATION BETWEEN CONDUITS.
5. ECBs, TYPE 5, EACH WALL SHALL INCLUDE 2 CABLE RACKS, MINIMUM 54" IN LENGTH, AS SHOWN IN THE DETAILS. CABLE RACKS SHALL BE INSTALLED DIRECTLY TO THE BOX WALL OR WITH THE SHORTEST STANDOFF BRACKET POSSIBLE. CABLE SUPPORT ARMS WITH PLASTIC OR CERAMIC INSULATORS AND 7" TO 9" IN LENGTH SHALL BE INCLUDED WITH EACH RACK. FOR EACH RACK, SUFFICIENT CABLE SUPPORT ARMS SHALL BE INSTALLED TO PROVIDE ONE ARM FOR EACH CABLE INSTALLED IN THE BOX, PLUS ONE SPARE ARM. ALL CABLE RACKS, CABLE SUPPORT ARMS, AND MOUNTING/FASTENING HARDWARE SHALL BE HOT-DIPPED GALVANIZED STEEL.
6. CONDUIT DUCT BANKS SHALL BE TERMINATED IN THE ECB AS SHOWN IN THE DETAILS. PRIOR TO GROUTING, THE DUCT BANK SHALL BE BACKFILLED AND COMPACTED FOR THE ENTIRE LENGTH OF TRENCH TO WITHIN TEN FEET OF THE ECBs AT EITHER END OF THE DUCT BANK. CONDUITS SHALL ENTER THE ECB LEVEL, STRAIGHT AND PERPENDICULAR TO THE ECB WALL. CONDUITS SHALL BE SECURED AND ALIGNED WITH CONDUIT ALIGNMENT JIGS MANUFACTURED FROM PLYWOOD, OR CONDUIT SPACERS IN ACCORDANCE WITH SECTION 682 OR OTHER METHOD SUBMITTED TO AND APPROVED BY THE ENGINEER. CONDUIT SHALL BE SECURED PRIOR TO GROUTING AND GROUTING SHALL BE COMPLETE AND SET PRIOR TO FINAL BACKFILLING AROUND THE BOX.
7. ECB COVERS SHALL BE IMPRINTED WITH "GEORGIA DOT COMMUNICATIONS".
8. CONTRACTOR TO BUNDLE CONDUIT, AS SHOWN ON CONDUIT DUCT BANK INSTALLATION DETAILS, WITH CABLE TIES, WIRE OR DUCT TAPE.
9. CONTRACTOR SHALL INSTALL ECBs ENTIRELY IN THE SHOULDER LANE WHENEVER POSSIBLE. IN THE CASE OF NARROW SHOULDER LANES, THE CONTRACTOR SHALL BACKFILL TO THE TOP OF THE BOX THAT EXTENDS BEYOND THE EDGE OF PAVEMENT. IN NO CASE SHALL ANY PORTION OF THE ECB BE INSTALLED IN THE GENERAL PURPOSE TRAVEL LANE.
10. COSTS OF COMPACTED BACKFILL MATERIAL AND COMPACTED COARSE AGGREGATE SHALL BE INCLUDED IN THE BID PRICE.

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC OPERATIONS

ATMS DESIGN
I-285 NORTHWEST FROM I-20 TO I-75
ELECTRICAL COMMUNICATION BOX - TYPE 5

DRAWING No.